QPL-50884-37 30 April 1996 SUPERSEDING QPL-50884-36 15 October 1995

QUALIFIED PRODUCTS LIST

OF

PRODUCTS QUALIFIED UNDER MILITARY SPECIFICATION

MIL-P-50884

PRINTED WIRING, FLEXIBLE AND RIGID-FLEX

GENERAL SPECIFICATION FOR

This list has been prepared for use by or for the Government in the acquisition of Printed Wiring, Flexible, to the performance requirements of Specification MIL-P-50884. This listing is not intended to and does not connote endorsement by the Department of Defense. All manufacturers listed herein have been qualified under the requirements as specified in the latest effective issue of the applicable specification. This list is subject to change without notice; revision or amendment of this list will be issued as necessary. The listing of a product does not release the supplier from compliance with the specification requirements.



THE ACTIVITY RESPONSIBLE FOR THIS QPL IS THE DEFENSE ELECTRONICS SUPPLY CENTER (DESC-ELS), DAYTON, OH 45444-5764, (513) 296-6225.

Extent of Qualification. Paragraph 4.5.3 of MIL-P-50884 extends qualification for a particular type to cover all conductor patterns of that type produced. Qualification of type 4 products shall be extended to cover all other types. Qualification of type 3 products shall be extended to cover types 2 and 1. Qualification of type 2 products shall be extended to cover type 1. Qualification of types 1 and 5 shall apply only to that type. Qualification of any type shall be extended to cover the approved type with a stiffener or solder mask.

NOTES:

- a. The QPL format has been changed to separate the adhesive constructions from the adhesiveless constructions.
- b. The qualification expiration date is the last six digits of the QRN (e.g. mm/dd/yy).
- c. An asterisk (*) adjacent to the QRN denotes the product was tested for and meets the etchback requirements.
- d. A plus (+) adjacent to the QRN denotes that the product tested is manufactured with a flexible metal-clad dielectric covered under a slash sheet(s) other than /1 through /4 of IPC-FC-241. The procuring activity must contact the respective QPL manufacturer to insure that the material used in the manufacturer's process meets their drawing and purchase order requirements. The manufacturer shall be able to provide a Notification of Qualification letter(s) and other official QPL status letters which specify the alternate slash sheet(s) of IPC-FC-241 which may be used for military production.

MANUFACTURER'S NAME	QUALIFICATION REFERENCE NUMBER AND EXPIRATION	MANUFACTURER'S NAME	QUALIFICATION REFERENCE NUMBER AND EXPIRATION	
(ADDRESSES ON LAST PAGE)	DATE (MM/DD/YY)	(ADDRESSES ON LAST PAGE)	DATE (MM/DD/YY)	
TYPE 2		TYPE 4 WITH ADHESIVES		
Advanced Circuit Technology	50884-319-121998	Advance Circuit Systems	50884-492-030197*	
Flexible Technology, Ltd.	50884-U008-040496	Advanced Flex 3, Inc.	50884-171-060697*	
Litronic Industries	50884-787-072395	Automated Systems, Inc.	50884-111-072297*	
Parlex Corp.	50884-347-011799	B-C Electronics, Inc.	50884-913-033197*	
Speedy Circuits	50884-382-101497			

1 of 6 AMSC N/A QPL-50884-37

FSC 5998

QUALIFICATION REFERENCE QUALIFICATION REFERENCE

NUMBER AND EXPIRATION

DATE (MM/DD/YY)

50884-110-032997

NUMBER AND EXPIRATION MANUFACTURER'S NAME
DATE (MM/DD/YY) (ADDRESSES ON LAST PAGE) MANUFACTURER'S NAME (ADDRESSES ON LAST PAGE)

	TYPE 4 WI	TH ADHESIVES	
Computing Devices International	50884-053-063097*	Schoeller & Co. Elektronik GmbH	50884-Z12/95-101298*
Cosmotronics Corp.	50884-096-102897*	Starflex, Inc.	50884-109-040897
Dynaco Acquisition Corp.	50884-113-032199*	Teledyne Electronic Technologies	50884-250-113096*
Eltek, Ltd.	50884-244-091596	Texas Instruments, Inc.	50884-048-032398*
Ferranti International	50884-U012-073097*	Tyco Engineered Systems, Inc.	50884-065-113096*
Flex-Link Products, Inc.	50884-051-102897*		
Flexible Circuits, Inc.	50884-052-060798*	TYPE 4 ADHES	IVELESS
Futura Circuits Corp.	50884-253-071497*	Advanced Flex 3, Inc.	50884-187-120697*+
General Components, Inc.	50884-047-051397*	CIMULEC	50884-089-031598*+
Graphic Electronics, Ltd.	50884-U011-011097	Computing Devices International	50884-054-052497*+
Graphic Research, Inc.	50884-168-063098*	Cosmotronics Corp.	50884-095-042698*+
Hamby Corp.	50884-217-061598* 50884-218-011999*	Dynaco Acquisition Corp.	50884-366-012498*+ 50884-306-022199*+
Hans Brockstedt GmbH and Co.	50884-437-052596	Flexible Circuits, Inc.	50884-115-101297*+
Hughes Aircraft Co. (1-2)	50884-219-050997	Graphic Research, Inc.	50884-195-042897*+
Lockheed Martin	50884-199-082997*	Graphic Research Proto Shop	50884-195-042897*+
MBM Technology, Ltd.	50884-U010-011097	Lars Industries, Inc.	50884-024-011198*+
Minco Products, Inc.	50884-910-073196*	Litronic Industries	50884-647-073196*+
Mommers Print Service, B.V.	50884-071-061498*	Multi Fineline Electronix, Inc.	50884-201-062397*+
Nordel S.r.l.	50884-710-103196	P.C.B., Ltd.	50884-191-091997*+
Northrop Gruman Corp.	50884-117-111797*	Packard-Hughes, Inc.	50884-064-033197*+
P.C.B., Ltd.	50884-072-061596	Parlex Corp.	50884-049-061697*+
Packard-Hughes, Inc.	50884-493-100196*	Pentadyne/Pentaflex, Inc.	50884-259-121598*+
Parlex Corp.	50884-411-042798*	Pioneer Circuits, Inc.	50884-173-010398*+
Pentadyne/Pentaflex, Inc.	50884-916-100196*	Printed Circuits, Inc.	50884-108-090697*+
Pioneer Circuits, Inc.	50884-172-010398*	Speedy Circuits	50884-321-082198*+
Printca A/S	50884-379-060196	Strataflex Canada Corp.	50884-95504-090598*+
Printed Circuits, Inc.	50884-407-032398*	Teledyne Electronic Technologies	50884-154-051697*+
Proto Circuit, Inc.	50884-389-120297*	Texas Instruments, Inc.	50884-048-032398*+
Proto Systems of Atlanta	50884-237-110197	Tyco Engineered Systems, Inc.	50884-050-022897*+
Racaar Circuit Industries, Inc.	50884-729-103197		
Raytheon Co.	50884-197-092297	TYPES 1 & 5	5 ONLY
Rigiflex Technology, Inc.	50884-656-103196*	Advanced Circuit Technology	50884-372-093097

Labarge Electronics

50884-071-120896*

Ruwel-Werke GmbH

PART II

The products listed herein are reciprocal based on the NATO Standardization Agreement (STANAG) 4093 or International Standardization Agreements.

The foreign-made products listed in Part II of this QPL have been certified by the authorized inspectorate of the foreign government and by the manufacturer, to be manufactured, tested and qualified in conformance with the applicable foreign specification identified with each product. The products listed in Part II are generally suitable for the function applications ascribed to the U.S.-specified products listed in Part I of the QPL; however, the functional performance limits, reliability and other design characteristics of the products listed in Part II may differ somewhat from those of the U.S.-specified products listed in Part I of the QPL. User agencies, industrial equipment designers, and manufacturers are wholly responsible for examining and evaluating the applicable foreign specifications, design data and product qualification test data to determine the technical suitability of the functional performance characteristics of those products for use in components and equipment specified under U.S. Department of Defense procurement contracts. Products listed in Part II of this QPL should not be selected for use in equipment or systems that are beyond the prototype design and development phase.

NATIONAL DEVICE	TEST REPORT/	NATIONAL QPL	MANUFACTURER'S NAME
DESIGNATION	REFERENCE NUMBER		AND ADDRESS
Type 4	FTB 003/01 Pt. 2	BS-9764-9765-9766	Flexible Technology, Ltd. Townhead Townhead, Rothesay Isle of Bute, PA20 9JH United Kingdom

MANUFACTURER'S NAME, ADDRESS	CAGE	MANUFACTURER'S NAME, ADDRESS	CAGE
AND PLANT	CODE	AND PLANT	CODE
dvance Circuit Systems, Inc. 74 North Main Street		Flex-Link Products, Inc. 599 Fourth Street	
ranklin, NH 03235-1020	0ASS4	San Fernando, CA 91340-2521	6Z867
lant: Same Address	į į	Plant: Same Address	į į
dvanced Circuit Technology	i i	Flexible Circuits, Inc.	į į
18 Northeastern Boulevard ashua, NH 03062-0547	 57034	Paul Valley Industrial Park Warrington, PA 18976-2580	
lant: Same Address	57034	Plant: Same Address	22926
Same Mar CSS		Tano pame naarebb	
dvanced Flex 3, Inc.		Flexible Technology, Ltd.	
100 Opportunity Court	i i	Townhead, Rothesay	i i
innetonka, MN 55343-9025	6U461	Isle of Bute, PA20 9JH	į į
ant: Same Address		United Kingdom	
		Plant: Same Address	
ntomated Systems, Inc.		Future diagnity Com	
505 Commerce Avenue cookfield, WI 53045-5290		Futura Circuits Corp. 11950 28th Street, N.	
ant: Same Address		St. Petersburg, FL 33716-1816	
		Plant: Same Address	
C Electronics, Inc.			
500 East Shady Grove Road	i i	General Components, Inc.	i
rving, TX 75060-4689	0PGN6	7425 124th Avenue, N.	
ant: Same Address		Largo, FL 34643-3095 Plant: Same Address	61542
		Figure Address	
MULEC	ļ	Guardia Electura	ļ
I. Les Jonquieres -57365 Ennery		Graphic Electronics, Ltd. Lords Meadow Industrial Estate	
cance		Crediton, Devon EX17 1HN	
ant: Same Address	į į	England	į į
		Plant: Same Address	
mputing Devices International			
overnment Systems Division		Graphic Research, Inc.	
.01 East 80th Street .oomington, MN 55425-1640		9334 Mason Avenue Chatsworth, CA 91311-5201	 5K529
ant: Same Address	2/303	Plant: Same Address	31.329
esmotronics Corp.		Graphic Research Proto Shop Facility	
5721 Noyes Avenue	i i	9420 Lurline, Building B, Unit F	į į
rvine, CA 92714-5176	63695	Chatsworth, CA 91311-5201	
ant: Same Address		Plant: Same Address	
maco Acquisition Corp.		Hamby Corporation	
000 South Priest Drive		27704 Avenue Scott	
empe, AZ 85281-5238	61642	Valencia, CA 91355-1218	07284
ant: Same Address		Plant: Same Address	
tek, Ltd.		Hans Brockstedt GmbH and Co.	
O. Box 159 oola Industrial Zone		Kieler Str. 120 24119 Kiel-Kronshagen	
101 Petach Tikva	S4451	Germany	
rael	į į	Plant: Same Address	į į
ant: Drezner Street 4			
Petach Tikva, Israel		Hughes Aircraft Co. (1-2)	
	į į	Missile Systems Group	į į
rranti International		Electronics Products Design Lab	
iro Mill, Waterhead, Oldham ncashire OL4 3JA		P.O. Box 11337, Bldg. 801/C13 Tucson, AZ 85734-1137	
ncasnire UL4 3JA gland		Tucson, AZ 85/34-113/ Plant: Same Address	106061
ant: Same Address			i i

MANUFACTURER'S NAME, ADDRESS	CAGE	MANUFACTURER'S NAME, ADDRESS	CAGE
AND PLANT	CODE	AND PLANT	CODE
Luchez Migneelegtnenias Dunen Itd	1 1	Next broom Common Com	1
Nughes Microelectronics Europa, Ltd.		Northrop Gruman Corp. Defense Systems Division	
lenrothes, Fife KY7 5PY		600 Hicks Road	-
Scotland	K5533	Rolling Meadows, IL 60008-1098	1 17920
lant: Same Address	100000	Plant: Same Address	17520
			į
abarge Electronics		P.C.B., Ltd.	
.505 Maiden Lane	į į	P.O. Box 631	j
oplin, MO 64801-3819	16275	Migdal Haemek, 10556, Israel	S5725
Plant: Same Address		Plant: Same Address	
ars Industries, Inc.	į į	Packard-Hughes, Inc.	į
2012 15th Avenue		Interconnect Systems	i i
ort Worth, TX 76102-4396	56874	P.O. Box 19685	1
Plant: Same Address		Irvine, CA 92714-4968	53669
	i i	Plant: 17150 Von Karman Avenue	İ
	į į	Irvine, CA 92713-9685	
itronic Industries			
2950 Red Hill Road	47070	D 1 0	
Costa Mesa, CA 92626-5935 Plant: Same Address	4F972	Parlex Corp. 145 Milk Street	
Tant: Same Address		Methuen, MA 01844-4699	1 18377
		Plant: Same Address	1 103//
ockheed Martin		Taile: Dame Haarebb	i
98 Oak Road	i i		j
cala, FL 34472-3001	04939	Pentadyne/Pentaflex, Inc.	ĺ
lant: Same Address		711 Fee Ana Street	
		Placentia, CA 92670-2108	0Н0Н9
IDM To abrology I + d		Plant: Same Address	
MBM Technology, Ltd. Tictoria Road			-
Portslade, Brighton,		Pioneer Circuits, Inc.	
East Sussex BN4 1YH	i	3010 S. Shannon Street	İ
England	i i	Santa Ana, CA 92704-6387	65723
lant: Same Address		Plant: Same Address	İ
		2/9	
Minco Products Company 7300 Commerce Lane		Printca A/S	-
Minneapolis, MN 55432-3177		Svendborgvej 3, Aalborg, Ost Denmark	
Plant: Same Address	05555	Plant: Same Address	
			į
Mommers Print Service		Printed Circuits, Inc.	
Peutenweg 2		1200 West 96th Street	
5101 VZ Echt/Holland	i i	Minneapolis, MN 55431-2606	65114
he Netherlands	į į	Plant: Same Address	
lant: Same Address			
	i i	Proto Circuit, Inc.	
Multi Fineline Electronix, Inc.		2035 Midway Drive	
301 N. Dynamics Street		Twinsburg, OH 44087-1933	7Z463
naheim, CA 92806-1901	43181	Plant: Same Address	
lant: Same Address			
		Proto Systems of Atlanta, Inc.	
ordel S.r.L.	j	625 Sims Industrial Boulevard	İ
razione Losa	i i	Alpharetta, GA 30201-2044	70718
0070 Pessinetto (Torino)	i i	Plant: Same Address	İ
taly	l İ		
lant: Same Address			
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			1

	CODE	AND PLANT	CODE
acaar Circuit Industries, Inc. 225-F Alabama Avenue Chatsworth, CA 91311-6901 Clant: Same Address			
aytheon Company 50 Lowell Street Indover, MA 01810-4499 Plant: Same Address	05030		
digiflex Technology, Inc. 310 W. Harvard Street Santa Ana, CA 92704-3920 Clant: Same Address			
choeller & Co. Elektronik GmbH Marburger Strasse 65 0-35083 Wetter/Hassen Germany			
speedy Circuits Division of PJC Technologies, Inc. 332 Commercial Drive Funtington Beach, CA 92649-1252 Plant: Same Address			
tarflex, Inc. 62 Clark Road, #13 Pewksbury, MA 01876-9998 Plant: 2 Avco Road Ward Hill, MA 01835-9998	0YHD7		
Strataflex Canada Corp. Division of Strataflex Corp. Dohme Avenue Coronto, Ontario, Canada M4B 1Y7 Clant: Same Address	38661		
Celedyne Electronic Technologies 10 Lowell Road, P.O. Box 68 Mudson, NH 03051-0068 Clant: Same Address	22958		
Pexas Instruments, Inc. Proc. Box 149149 Proc. 2501 Research Blvd., MS 2066 Proc. 2501	96214		
Tyco Engineered Systems, Inc. 2.0. Box 60 0 Harrison Street Manchester, CT 06040-0060 Clant: Same Address	65416		